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DATE MAILED: 07/16/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/893,868	06/29/2001	Thomas D. Fletcher	2207/11272	6555
23838 759	90 07/16/2004		EXAMINER	
KENYON & KENYON			NGO, CHUONG D	
1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
	,		2124	

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	- M
	09/893,868	FLETCHER, THOMAS D.	
Office Action Summary	Examiner	Art Unit	
	Chuong D Ngo	2124	
The MAILING DATE of this communication	appears on the cover sheet wi	th the correspondence address	·
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by a Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a rent. In. In a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communications ANDONED (35 U.S.C. § 133).	on.
Status			~
1) Responsive to communication(s) filed on 2			
2a) ☐ This action is FINAL . 2b) ☐			
3) Since this application is in condition for all	·	•	is
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-24</u> is/are pending in the applica	ation.		
4a) Of the above claim(s) is/are with	ndrawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-10 and 12-24</u> is/are rejected.			
7) Claim(s) <u>11</u> is/are objected to.	and the section of th		
8) Claim(s) are subject to restriction a	na/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10)⊠ The drawing(s) filed on 29 June 2001 is/are	e: a)□ accepted or b)□ obje	cted to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co			(d).
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for for a)☐ All b)☐ Some * c)☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docun	nents have been received.		
2. Certified copies of the priority docun			
3. Copies of the certified copies of the		received in this National Stage	
application from the International Bu * See the attached detailed Office action for a		ropoiyad	
* See the attached detailed Office action for a	i list of the certified copies not	receivea.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>2 pages</u>.)/Mail Date Iformal Patent Application (PTO-152)	
			

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DETAILED ACTION

1. Claims 1- 9, 13,14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, it is indefinite as to what is cascaded.

As per claim 13, it is also indefinite as to what the Miller coupling is.

Further, the word "compliment" in the claims should be changed to -complement--.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1,2,10,12-18,21-24 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Taborn et al. (5,491,653).

Taborn et al. discloses in figure 5 a cascaded domino 4:2 reducer including a first 3:2 reducer and a second 3:2 reducer directly connected to the first 3:2 reducer without static stages in between, and the 3:2 reducer including a differential XOR gate (figure 3A) and differential carry generate gate (figure 3B) as claimed.

5. Claims 16-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Winters et al. (6,466,960).

Winters et al. discloses in figures 1 and 3, a circuit having three true inputs and three complement inputs (A,B,C) a differential XOR gate (figure 3B) and a differential carry generated gate (figure 3A) as claimed.

6. Claims 1,2 and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winters et al. (6,466,960).

It is noted that Winters et al. does not teach a 4:2 reducer. However, Winters et al. discloses on col.1, lines 35-45, that it is known to implement a 4:2 reducer by cascading two 3:2 reducer as claimed. Thus, it would have been an obvious application to employ two 3:2 reducer as taught by Winters et al. to implement a 4:2 reducer in order to combine four input in a reduced time.

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7. Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 8. Claims 3-9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo
Primary Examiner
Art Unit 2124

07-08-04